



# ENVIRONMENTAL AUDIT, INC.®

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November 29, 2010

EAI Project No. 1576

Ms. Ann Lin  
California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

**SUBJECT: GROUND WATER MONITORING REPORT  
FOURTH QUARTER 2010  
11630 - 11700 Burke Street, Santa Fe Springs, CA 90670  
(RWQCB SCP Case No. 1238)**

Dear Ms. Lin:

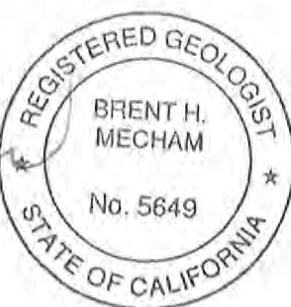
Pursuant to requirements of the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) an electronic copy of the Environmental Audit, Inc. (EAI) report for the above referenced site titled "*Ground Water Monitoring Report, Fourth Quarter 2010*," dated November 29, 2010, is hereby transmitted to the RWQCB. A hard copy of the report will follow via U.S. Mail.

Please call me at (714) 632-8521, ext. 226 or Steven Bright at ext. 224 if you have any questions.

Sincerely,

ENVIRONMENTAL AUDIT, INC.

Brent H. Mecham, RG, REA II  
Project Manager



BHM:SAB:pje

attachment

cc: Larry Patsouras (w/attachment)

# **GROUND WATER MONITORING REPORT**

## **FOURTH QUARTER 2010**

**11630-11700 Burke Street  
Santa Fe Springs, CA 90670  
(RWQCB SCP Case No. 1238)**

Prepared for:  
**LARRY PATSOURAS  
11700 Burke Street  
Santa Fe Springs, CA 90670**

Submitted to:  
**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013**

**EAI Project No. 1576**

**November 29, 2010**

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Prepared by:



**ENVIRONMENTAL AUDIT, INC.<sup>®</sup>**

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## **1.0 INTRODUCTION**

This document constitutes a Ground Water Monitoring Report for the Fourth Quarter 2010 for the real property identified as 11630 - 11700 Burke Street, Santa Fe Springs, Los Angeles County, California 90670 (Site) (see Figure 1). EAI was retained by Mr. Larry Patsouras, the current property owner, to prepare this report.

Assessment efforts associated with the Site are currently being overseen by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB). Mrs. Ann Lin is the RWQCB Case Manager assigned to the Site and the Site Cleanup Program Case Number is 1238.

### **1.1 BACKGROUND INFORMATION**

The Site, approximately 8.5 acres, is identified by the County of Los Angeles as Assessor's Parcel Number 8168-001-008. For reporting purposes the Site has been divided into the "East Parcel" where Mr. Patsouras operates El Greco, a wholesale grocery warehouse, and the "West Parcel" where Talco Plastics formerly operated until 1997 (see Figure 2). All of the former Talco Plastics facilities have been removed from the Site pursuant to permits issued by the City of Santa Fe Springs.

Historically, the Site Mitigation Unit (SMU), Health Hazardous Materials Division, County of Los Angeles Fire Department was initially working on environmental issues associated with the Site. On June 4, 1997, the SMU forwarded a letter to Mr. Jim Ross of the RWQCB transferring the case to the RWQCB due to the presence of chemicals, e.g., tetrachloroethene (PCE) and trichloroethene (TCE) detected in ground water beneath the Site.

### **1.2 SCOPE OF WORK**

The scope of work completed for this event included:

- Gauging all wells associated with the Site. Wells containing measureable amounts of ground water (MW-1D through MW-4) were also purged and sampled.
- Analytical testing of ground water samples for total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) by modified EPA Method 8015, volatile organic compounds (VOCs) by EPA Method 8260B, total chromium by EPA Method 200.7, and hexavalent chromium by EPA Method 218.6.
- Preparation of this report.

## **2.0 SAMPLING ACTIVITIES AND RESULTS**

All sampling activities were completed on October 14, 2010.

### **2.1 GROUND WATER SAMPLING**

Prior to initiating any purging or sampling activities, depth measurements to fluid levels in wells MW-1D through MW-4 were obtained using an interface probe accurate to 0.01 foot. Note wells MW-2 and MW-3 were dry. Tables 1 and 2 contain the ground water elevation and testing results for hydrocarbons and metals, respectively, and Table 3 contains the well construction details.

Prior to collecting ground water samples for analytical testing, wells MW-1D and MW-4 were purged of approximately three well casing volumes of water. Temperature, conductivity, turbidity and pH readings were recorded to evaluate the effectiveness of purging activities (see Appendix A). Samples were collected from just below the water surface using disposable bottom bailers equipped with a volatile organic compound (VOC) sampling tip. The samples from wells MW-1D and MW-4 were sealed in 40-milliliter volatile organic analysis (VOA) vials with Teflon septa lined lids, one-liter amber glass jars, and 500-ml plastic bottles. Each VOA was completely filled so that no headspace existed between the sample and the lid.

### **2.2 SAMPLE IDENTIFICATION, DOCUMENTATION, PACKAGING AND SHIPPING**

To identify and manage the samples collected in the field, a sample label was affixed to each sample container. Each sample label included the following information:

- Sample identification number
- Date and time of sample collection
- EAI project number
  
- Name of client
- Name of sampler

Following sample collection and labeling, the ground water samples were placed into a high quality ice chest for temporary storage and transport to the analytical laboratory. The following protocol was used for sample packaging:

- A self-adhesive sample label was placed across the lid of each sample container, acting not only as a sample label but also as a custody seal.
  
- The samples were placed in leak-proof “Ziploc” plastic bags.

- The samples were then placed into a high quality ice chest that included ice to keep the samples chilled during transport to the laboratory. The drain plug of the ice chest was secured using tape to preclude melting ice from leaking out of the cooler.
- The chain of custody record (COC) forms were placed in a “Ziploc” water-resistant plastic bag and taped to the inside lid of the cooler.
- The samples were kept chilled until delivered to the laboratory for analytical testing.

COC record forms (see Appendix B) were used to document sample collection and shipment to the laboratory for analytical testing. The COC record form identifies the contents of each shipment, the analytical testing to be completed on each sample, and maintains the custodial integrity of the samples.

### **2.3 DECONTAMINATION PROCEDURES**

The pump and hose system (equipment) used only to purge the wells was decontaminated by flushing the equipment with a solution of Alconox detergent and tap water, and flushing the equipment with tap water.

### **2.4 MANAGEMENT OF WASTES**

In the process of collecting media samples during the field-sampling program, potentially contaminated investigation-derived wastes were generated. These wastes included spent personal protective equipment (PPE), and well purging fluids. Spent PPE, e.g., gloves, were double bagged and placed in a municipal refuse dumpster. All well purging fluids were sealed in a labeled 55-gallon drum. The drum remained on the Site pending the results of the analytical testing, at which time the effluent was transported to an approved disposal or recycling facility.

### **2.5 ANALYTICAL TESTING**

All ground water samples were analyzed by Enviro-Chem, Inc. a State of California certified hazardous waste testing laboratory (ELAP No. 1555). Samples were analyzed for TPH-G and TPH-D by modified EPA Method 8015, for VOCs by EPA Method 8260B, for total chromium by EPA Method 200.7, and for hexavalent chromium by EPA Method 218.6. The results of the ground water testing are presented in Tables 1 and 2. The chain of custody records and laboratory reports are contained in Appendix B.

### **2.6 GROUND WATER ELEVATION MAP**

Since only two wells (MW-1D and MW-4) contained measurable amounts of ground water, a ground water elevation map could not be generated. The ground water flow direction across the Site is assumed based upon prior sampling events where ground water was measurable in three wells.

### **3.0 DISCUSSION**

PCE and TCE concentrations in wells MW-1D and MW-4 remain at or just above drinking water standards. The Site is located in an area known to be regionally impacted with chlorinated compounds. The chlorinated compounds detected in ground water from on-site wells are believed to be a result of the regional impact to ground water and not a result of any activities previously conducted at the Site.

## **4.0 WORK PROPOSED FOR NEXT REPORTING PERIOD**

The following activities are proposed for the next reporting period:

- Conduct quarterly ground water monitoring in January 2011.

## **5.0 LIMITATION**

Our professional services have been performed using that degree of knowledge, diligence, care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at this time. This report has been prepared for Larry Patsouras. The conclusions contained in this report are based on information contained and/or referenced herein, and our best judgment. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

## **TABLES**

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TABLE 1

## SUMMARY OF GROUND WATER ELEVATION AND TESTING RESULTS - HYDROCARBONS

11630 - 11700 Burke Street, Santa Fe Springs, CA 90670

(concentrations in micrograms per liter - ug/L)

Well	Date	Well Casing Elevation (feet above sea level)	Depth to Ground Water (feet bgs)	Ground Water Elevation (feet above sea level)	TPH-G	TPH-D	TPH-O	Toluene	Xylenes	Chloroform	Carbon Tetra-chloride	cis-1,2-DCE	trans-1,2-DCE	1,1,1-TCA	1,1-DCA	1,2-DCA	1,1-DCE	PCE	TCE
MW-1	10/05/95	152.83	35.83	117.00	NA	NA	NA	<1	<2	1.9	<1	<1	<1	1.4	<1	<1	2.2	158	7.4
	01/13/97		38.33	114.50	NA	NA	NA	1.9	2.7	4.5	1.1	<0.5	<0.5	1.3	<0.5	0.5	4.3	93	11.4
	02/19/09		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/14/09		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/20/09		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	On December 7, 2009 well MW-1 was deepened and is now identified as well MW-1D																		
MW-1D	01/04/10	154.93	74.72	80.21	<50	<500	NA	<1	<2	1.74	1.15	<1	<1	<1	<1	<1	<1	6.07	3.86
	04/26/10		68.29	86.64	<50	<500	NA	<1	<2	16.3	8.68	<1	<1	<1	<1	<1	<1	16.7	7.92
	07/23/10		67.20	87.73	<50	<500	NA	<1	<2	27.1	10.5	<1	<1	<1	<1	<1	<1	25.5	7.98
	10/14/10		70.11	84.82	<50	<500	NA	<1	<2	9.48	8.29	<1	<1	<1	<1	<1	<1	6.14	8.21
MW-2	01/13/97	149.66	32.14	117.52	NA	NA	NA	<0.5	<1.0	1.5	<0.5	<0.5	<0.5	7.9	1.3	<0.5	33.2	296	14.5
	02/19/09		39.70	109.96	<50	<500	<3,000	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	7.19	<1
	07/14/09		41.27	110.74	<50	<500	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	8.92	<1
	10/20/09		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/04/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/14/09	154.93	68.67	86.55	<50	<500	NA	<1	<2	36.1	17.0	<1	<1	<1	<1	<1	<1	2.54	4.16
	10/20/09		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/04/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/10		68.49	86.73	NS	NS	NS	<1	<2	9.32	<1	2.69	13.0	<1	<1	<1	<1	130 <sup>(1)</sup>	60.5
	07/23/10		67.37	87.85	<50	<500	NA	<1	<2	8.34	<1	<1	<1	<1	<1	<1	<1	36.7	6.64
	10/14/10		DRY	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	07/14/09	155.07*	70.05	85.02	<50	<500	NA	<1	<2	4.11	1.34	1.52	1.22	<1	<1	<1	<1	11.4	6.05
	10/20/09		74.52	80.55	<50	<500	NA	<1	<2	11.3	7.93	<1	1.01	<1	<1	<1	<1	16.4	6.65
	01/04/10		76.51	78.56	<50	<500	NA	<1	<2	13.3	10.5	<1	<1	<1	<1	<1	<1	20.4	4.95
	04/26/10		69.83	85.24	<50	<500	NA	<1	<2	9.02	6.92	<1	<1	<1	<1	<1	<1	11.3	3.77
	07/23/10		68.65	86.42	<50	<500	NA	<1	<2	4.08	2.44	<1	<1	<1	<1	<1	<1	12.9	3.12
	10/14/10		71.71	83.36	<50	<500	NA	<1	<2	3.49	2.67	<1	<1	<1	<1	<1	<1	11.0	2.75
Maximum Contaminant Level				NE	NE	NE	150	1,750	NE	0.5	NE	NE	NE	200	5	0.5	6	5	5

Only those volatile organic compounds detected are listed. Sample collected from well MW-2 on February 19, 2009 also analyzed for ETBE, DIPE, MTBE, TAME, TBA and Ethanol

Elevations for wells MW-1 and MW-2 based on established elevation (151.71 feet MSL) for off-site Phibro-Tech well MW-3

\* = Surveyed to LA County Department of Public Works Bench Mark #Y-6668 by Evans Land Surveying on July 6, 2009.

(1) = Well was not purged, Only one foot of water in the well end cap, Probably not representative of ground water conditions.

&lt; = Not detected at laboratory report limit listed

NA = Not analyzed for this chemical

NE = Not Established

NS = Not sampled - well dry

1.1 = Concentration detected exceeds MCL

**TABLE 2**  
**SUMMARY OF GROUND WATER TESTING RESULTS - METALS**  
**11630 - 11700 Burke Street, Santa Fe Springs, CA 90670**  
(bconcentrations in milligrams per liter - mg/L)

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MW-1	10/05/95	<0.1	<0.1	0.38	<0.01	<0.02	0.06	NA	<0.03	<0.05	<0.12	<0.005	<0.05	<0.04	<0.1	<0.02	<0.16	0.07	0.09
	01/13/97	<0.1	<0.1	0.52	<0.01	<0.02	0.08	NA	<0.03	0.07	<0.12	<0.005	<0.05	<0.04	<0.1	<0.02	<0.16	0.13	0.15
	02/19/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/14/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/20/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/10	On December 7, 2009 well MW-1 was abandoned and replaced by well MW-1D																	
MW-1D	01/04/10	NA	NA	NA	NA	NA	<0.01	0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/26/10	NA	NA	NA	NA	NA	<0.01	0.0043	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/10	NA	NA	NA	NA	NA	<0.01	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/10	NA	NA	NA	NA	NA	0.022	0.0056	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	01/13/97	<0.1	<0.1	0.44	<0.01	<0.02	0.09	NA	0.04	0.08	<0.12	<0.0005	<0.05	0.05	<0.1	<0.02	<0.16	0.14	0.19
	02/19/09	NA	NA	NA	NA	NA	<0.01	0.0039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/14/09	NA	NA	NA	NA	NA	0.061	0.00432	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/04/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/14/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/14/09	NA	NA	NA	NA	NA	<0.01	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/04/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/10	NA	NA	NA	NA	NA	<0.01	0.0087	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	07/14/09	NA	NA	NA	NA	NA	<0.01	0.00443	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/09	NA	NA	NA	NA	NA	<0.01	0.0040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/04/10	NA	NA	NA	NA	NA	<0.01	0.0036	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/26/10	NA	NA	NA	NA	NA	<0.01	0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/10	NA	NA	NA	NA	NA	<0.01	0.0057	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/10	NA	NA	NA	NA	NA	0.021	0.0051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Ground water samples collected on January 13, 1997 were also analyzed on a filtered basis. No metals were detected in the filtered ground water samples.

< = Not detected at laboratory reporting limit listed

NA = Not analyzed for this chemical

NS = Not sampled - well dry

**TABLE 3**  
**SUMMARY OF WELL CONSTRUCTION DATA**  
**11630 - 11700 Burke Street, Santa Fe Springs, CA 90670**

Well	Date Completed	Installed By	Well Permit Number	Casing Diameter (inch)	Total Depth (feet bgs)	Screen Interval (feet bgs)	Slot Size (inch)	Well Elevation (feet)
MW-1 <sup>(a)</sup>	10/03/95	EAI	?	2	53	33 - 53	0.020	155.19
MW-1D	12/07/09	EAI	890007	2	80	60-80	0.020	154.93
MW-2	12/23/96	EAI	?	2	55	30 - 55	0.020	152.01
MW-3	06/30/09	EAI	9234	2	70	40-70	0.020	155.22
MW-4	06/30/09	EAI	9234	2	80	50-80	0.020	155.07

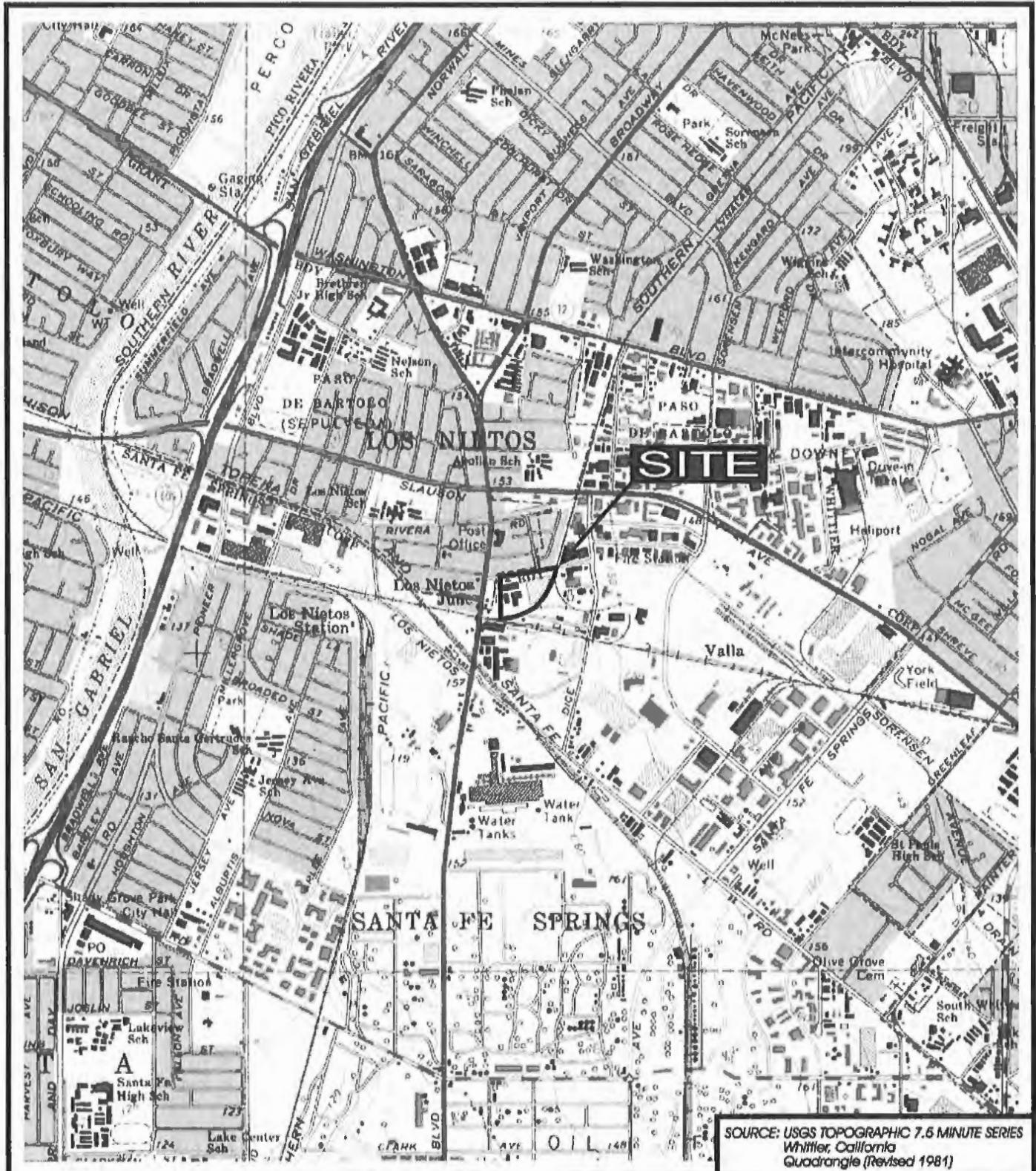
Well elevation data based on Evans Land Surveying and Mapping survey (NAVD'88)

Bench Mark # Y-6668, Elevation = 155.530 ft. (2005 adj.)

(a) = Well abandoned on 12/07/09 and replaced by well MW-1D

## **FIGURES**

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Environmental Audit, Inc.

0 2,000'

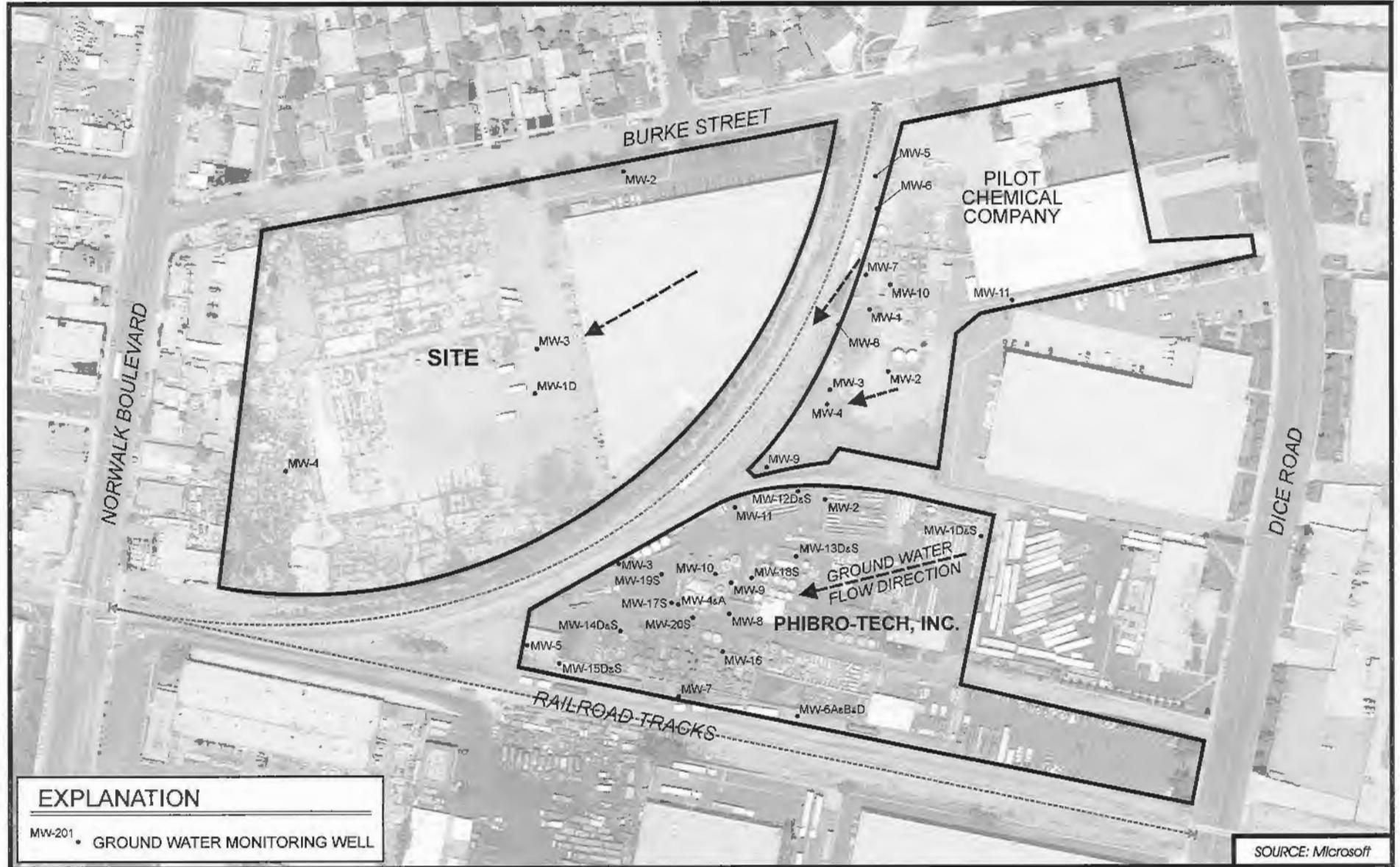
N

### SITE LOCATION MAP 11630 - 11700 Burke Street Santa Fe Springs, CA 90670

Project No. 1578

N:\1578\SiteLocMap.cdr

Figure 1



AERIAL VICINITY MAP  
11630 to 11700 Burke Street  
Santa Fe Springs, CA 90670



## **APPENDIX A**

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### **Ground Water Sampling Logs**

# **GROUND WATER SAMPLING LOG**



## Environmental Audit, Inc. ®

Planning, Environmental Analysis and Hazardous  
Substances Management and Remediation  
1000 ORTEGA WAY, SUITE A (714) 632-8521  
PLACENTIA, CA 92870-7125 FAX (714) 632-6754

DATE:	10/14/2010
PROJECT NO.:	1576
CLIENT:	Burke Street
WELL NO.:	MW-1D
WELL DIAMETER (INCHES):	2"
SAMPLED BY:	BHM

## **WELL PURGING INFORMATION**

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

**TOTAL DEPTH OF  
WELL (ft)**

**DEPTH TO WATER**  
(ft bgs)

**DEPTH TO FREE  
PRODUCT (ft. bgs)**

WELL VOLUME FACTORS	
WELL CASING ID (INCHES)	VOLUME FACTOR
2.0	0.16
4.0	0.65
6.0	1.47

$$\rightarrow \boxed{9.89} \times \boxed{0.16} = \boxed{1.58}$$

## WELL VOLUME FACTOR

**ONE CASING VOLUME  
OF WATER (GALLONS)**

**PURGE TIME (hrs):**

START 9:59

## FINISH

METHOD: DOWN HOLE PUMP  DEDICATED PUMP  BAILER  OTHER

**TYPE/MODEL:**

Grundfos

## **WELL SAMPLING INFORMATION**

**TIME SAMPLED (hrs):**

10:40

METHOD: DOWN HOLE PUMP  DEDICATED PUMP  BAILER  OTHER

**TYPE/MODEL:**

Voss Technologies

#### COMMENTS.

# **GROUND WATER SAMPLING LOG**



## **Environmental Audit, Inc. ®**

Planning, Environmental Analysis and Hazardous  
Substances Management and Remediation  
1000 ORTEGA WAY, SUITE A (714) 632-8521  
PLACENTIA, CA 92870-7125 FAX (714) 632-6754

DATE:	10/14/2010
PROJECT NO.:	1576
CLIENT:	Burke Street
WELL NO.:	MW-4
WELL DIAMETER (INCHES):	2"
SAMPLED BY:	BHM

## **WELL PURGING INFORMATION**

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

**TOTAL DEPTH OF  
WELL (ft)**

DEPTH TO WATER  
(ft bgs)

**DEPTH TO FREE  
PRODUCT (ft. bgs)**

WELL VOLUME FACTORS	
WELL CASING ID (INCHES)	VOLUME FACTOR
2.0	0.16
4.0	0.65
6.0	1.47

PURGE TIME (hrs):

START 9:40

FINISH **9:49**

METHOD: DOWN HOLE PUMP  DEDICATED PUMP  BAILER  OTHER

**TYPE/MODEL:**

Grundfos

## **WELL SAMPLING INFORMATION**

TIME SAMPLED (hrs):

10:30

METHOD: DOWN HOLE PUMP  DEDICATED PUMP  BAILER  OTHER

TYPE/MODEL: Voco Technologies

#### COMMENTS.

## **APPENDIX B**

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### **Chain of Custody Record and Laboratory Reports**

**Enviro - Chem, Inc.**  
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

ENVIRONMENTAL AUDIT, INC.

Date: October 21, 2010

OCT 25 2010

RECEIVED

Mr. Brent Mecham  
Environmental Audit, Inc.  
1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax(714) 632-6754

Project: 1576 / Burke Street  
Lab I.D.: 101014-13, -14

Dear Mr. Mecham:

The **analytical results** for the water samples, received by our laboratory on October 14, 2010, are attached. The samples were received chilled, intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets  
Vice President/Program Manager

Andy Wang  
Laboratory Manager

Eric Lu, Ph.D.  
Chief Chemist

*Enviro - Chem, Inc.*  
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Environmental Audit, Inc.  
1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax(714) 632-6754

PROJECT: 1576 / Burke Street DATE RECEIVED: 10/14/10  
MATRIX: WATER DATE EXTRACTED: 10/19/10  
DATE SAMPLED: 10/14/10 DATE ANALYZED: 10/19/10  
REPORT TO: MR. BRENT MECHAM DATE REPORTED: 10/21/10

C11-C22 HYDROCARBONS  
METHOD: EPA 8015B  
UNIT: ug/L = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	C11-C22 RESULT	DF
<u>MW-4</u>	101014-13	ND	1
<u>MW-1D</u>	101014-14	ND	1
<u>Method Blank</u>		ND	1
	PQL	500	

COMMENTS

C11-C22 = DIESEL RANGE

PQL = PRACTICAL QUANTITATION LIMIT

DF = DILUTION FACTOR

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by:                           
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5905   Fax (909)590-5907

## 8015B Water QC

Date Analyzed: 10/19/2010

Units: ug/L (PPB)

Matrix: Water

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **101019-LCS1/2**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	150000	133000	89%	140000	93%	5%	75-125	0-20%

### LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	14100	118%	75-125

Analyzed and Reviewed by:     w    

Final Reviewer:     E

*Enviro - Chem, Inc.*  
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LABORATORY REPORT

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PROJECT: 1576 / Burke Street

MATRIX: WATER DATE RECEIVED: 10/14/10  
DATE SAMPLED: 10/14/10 DATE ANALYZED: 10/21/10  
REPORT TO: MR. BRENT MECHAM DATE REPORTED: 10/21/10

C4-C10 HYDROCARBONS  
METHOD: EPA 5030B/8015B  
UNIT: ug/L = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	C4-C10 RESULT	DF
<u>MW-4</u>	<u>101014-13</u>	<u>ND</u>	<u>1</u>
<u>MW-1D</u>	<u>101014-14</u>	<u>ND</u>	<u>1</u>
<u>Method Blank</u>	<u>---</u>	<u>ND</u>	<u>1</u>
	PQL	50.0	

COMMENTS

C4-C10 = GASOLINE RANGE

PQL = PRACTICAL QUANTITATION LIMIT

DF = DILUTION FACTOR

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by: LL  
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

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Tel (909)590-5905

Fax (909)590-5907

**Gas/BTEX(8015B/8021B) QC**Date Analyzed: 10/21~22/2010Units: ug/L (PPB)Matrix: Water**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**Spiked Sample Lab I.D.: **101020-39 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %REC	ACP %RPD
Gasoline Range	0	500	491	98%	463	93%	6%	75-125	<20%
Benzene	0	50.0	46.0	92%	44.2	88%	4%	75-125	<20%
Toluene	0	50.0	53.1	106%	50.0	100%	6%	75-125	<20%
Ethylbenzene	0	50.0	55.1	110%	51.9	104%	6%	75-125	<20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
Gasoline Range	500	456	91%	75-125
Benzene	50.0	43.4	87%	75-125
Toluene	50.0	49.1	98%	75-125
Ethylbenzene	50.0	51.6	103%	75-125

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	101014-13	101014-14	101019-18	101019-19	101019-20	101019-21	101020-38
BFB	70-130	111%	111%	115%	108%	109%	119%	113%	109%

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		101020-39	101020-40	101020-41	101020-42	101020-43	101020-44	101020-45	101020-46
BFB	70-130	112%	114%	113%	114%	116%	115%	115%	113%

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		101020-47	101020-48	101020-49	101020-51	101020-52
BFB	70-130	120%	125%	108%	113%	116%

S.R. = Sample Result

\* = Surrogate fail due to matrix interference (If marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: SChFinal Reviewer: (Signature)

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LABORATORY REPORT

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1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax(714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER

DATE RECEIVED: 10/14/10

DATE SAMPLED: 10/14/10

DATE ANALYZED: 10/14-15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-4

LAB I.D.: 101014-13

TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Chromium(Cr), Total	0.021	0.01	1	200.7
Chromium VI(Cr 6)	0.00512	0.0002	1	218.6

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by:         
CAL-DHS ELAP CERTIFICATE No.: 1555

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(714) 632-8521 Fax(714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER

DATE RECEIVED: 10/14/10

DATE SAMPLED: 10/14/10

DATE ANALYZED: 10/14-15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-1D

LAB I.D.: 101014-14

TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Chromium(Cr), Total	0.022	0.01	1	200.7
Chromium VI(Cr 6)	0.00560	0.0002	1	218.6

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

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## METHOD BLANK REPORT

CUSTOMER: Environmental Audit, Inc.  
1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax (714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER

DATE RECEIVED: 10/14/10

DATE SAMPLED: 10/14/10

DATE ANALYZED: 10/14-15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

METHOD BLANK FOR LAB I.D.: 101014-13, -14

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Chromium(Cr), Total	ND	0.01	1	200.7
Chromium VI(Cr 6)	ND	0.0002	1	218.6

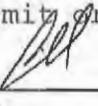
### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC for TTLC Metals Analysis --WATER MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 10/15/2010

Unit : mg/L(ppm)

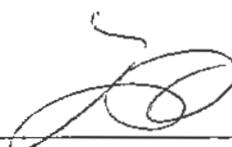
Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	101014-15	1.00	101	PASS	0	1.00	0.979	98%	0.900	90%	8%
Zinc(Zn)	101014-15	1.00	104	PASS	0.120	1.00	1.12	100%	1.04	92%	8%
Iron(Fe)	101014-15	1.00	103	PASS	0.288	1.00	1.27	98%	1.18	89%	10%

ANALYSIS DATE. : 10/13/2010

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	101012-7	0.00250	93	PASS	0	0.00250	0.00221	88%	0.00218	87%	1%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Zinc(Zn)	PASS	PASS	PASS	PASS
Iron(Fe)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: 

FINAL REVIEWER: 

**Enviro-Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909) 590-5905

Fax (909) 590-5907

**QA/QC Report for Chromium, Hexavalent ( $\text{Cr}^{6+}$ )**

Analysis Method: EPA 218.6

Analysis Date: 10/15/2010Matrix Type: WaterConc. Unit:  $\mu\text{g/L}$ **Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spike Sample ID:	<b>101015-LCS1/2</b>
Sample Result	0.00
Spike Conc.	5.00
MS	4.98
%MS	<b>100%</b>
MSD	4.93
%MSD	<b>99%</b>
%RPD	<b>1%</b>
ACP %MS	75~125%
ACP %RPD	0~20%

*Pass**Pass**Pass***LCS STD Recovery**

Spike Conc.	5.00
LCS	5.43
%LCS	<b>109%</b>
ACP %LCS	85~115%

*Pass*

Analyzed/Reviewed by \_\_\_\_\_

*Wp*

Final Reviewed by \_\_\_\_\_

*Q*

*Enviro - Chem, Inc.*  
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Environmental Audit, Inc.  
1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax (714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER

DATE RECEIVED: 10/14/10

DATE SAMPLED: 10/14/10

DATE ANALYZED: 10/15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

EPA 5030B/8260B FOR FUEL OXYGENATES  
UNITS: uG/L = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	ETBE	DIPE	MTBE	TAME	TBA	DF
MW-4	101014-13	ND	ND	ND	ND	ND	1
MW-1D	101014-14	ND	ND	ND	ND	ND	1
<b>METHOD BLANK</b>		ND	ND	ND	ND	ND	1
	PQL	5	5	3	5	50	

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

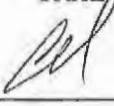
ETBE = ETHYL tert-BUTYL ETHER

DIPE = ISOPROPYL ETHER

MTBE = METHYL tert-BUTYL ETHER

TAME = TERT-AMYL METHYL ETHER

TBA = TERTIARY BUTYL ALCOHOL

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

*Enviro - Chem, Inc.*

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DATE ANALYZED: 10/15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-4

LAB I.D.: 101014-13

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2

UNIT: ug/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	10
BENZENE	ND	1
BROMOBENZENE	ND	1
BROMOCHLOROMETHANE	ND	1
BROMODICHLOROMETHANE	ND	1
BROMOFORM	ND	1
BROMOMETHANE	ND	1
2-BUTANONE (MEK)	ND	10
N-BUTYLBENZENE	ND	1
SEC-BUTYLBENZENE	ND	1
TERT-BUTYLBENZENE	ND	1
CARBON DISULFIDE	ND	5
CARBON TETRACHLORIDE	2.67	1
CHLOROBENZENE	ND	1
CHLOROETHANE	ND	1
CHLOROFORM	3.49	1
CHLOROMETHANE	ND	1
2-CHLOROTOLUENE	ND	1
4-CHLOROTOLUENE	ND	1
DIBROMOCHLOROMETHANE	ND	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	1
1,2-DIBROMOETHANE	ND	1
DIBROMOMETHANE	ND	1
1,2-DICHLOROBENZENE	ND	1
1,3-DICHLOROBENZENE	ND	1
1,4-DICHLOROBENZENE	ND	1
DICHLORODIFLUOROMETHANE	ND	1
1,1-DICHLOROETHANE	ND	1
1,2-DICHLOROETHANE	ND	1
1,1-DICHLOROETHENE	ND	1
CIS-1,2-DICHLOROETHENE	ND	1
TRANS-1,2-DICHLOROETHENE	ND	1
1,2-DICHLOROPROPANE	ND	1
1,3-DICHLOROPROPANE	ND	1

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: 

*Enviro - Chem, Inc.*

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LABORATORY REPORT

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PROJECT: 1576 / Burke Street

MATRIX: WATER

DATE RECEIVED: 10/14/10

DATE SAMPLED: 10/14/10

DATE ANALYZED: 10/15/10

REPORT TO: MR. BRENT MECHAM

DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-4

LAB I.D.: 101014-13

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2

UNIT: ug/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL X1
2,2-DICHLOROPROPANE	ND	1
1,1-DICHLOROPROPENE	ND	1
CIS-1,3-DICHLOROPROPENE	ND	1
TRANS-1,3-DICHLOROPROPENE	ND	1
ETHYLBENZENE	ND	1
2-HEXANONE	ND	10
HEXACHLOROBUTADIENE	ND	1
ISOPROPYLBENZENE	ND	1
4-ISOPROPYLTOLEUENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	10
METHYL tert-BUTYL ETHER (MTBE)	ND	3
METHYLENE CHLORIDE	ND	5
NAPHTHALENE	ND	1
N-PROPYLBENZENE	ND	1
STYRENE	ND	1
1,1,1,2-TETRACHLOROETHANE	ND	1
1,1,2,2-TETRACHLOROETHANE	ND	1
TETRACHLOROETHENE (PCE)	11.0	1
TOLUENE	ND	1
1,2,3-TRICHLOROBENZENE	ND	1
1,2,4-TRICHLOROBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1
1,1,2-TRICHLOROETHANE	ND	1
TRICHLOROETHENE (TCE)	2.75	1
TRICHLOROFLUOROMETHANE	ND	1
1,2,3-TRICHLOROPROPANE	ND	1
1,2,4-TRIMETHYLBENZENE	ND	1
1,3,5-TRIMETHYLBENZENE	ND	1
VINYL CHLORIDE	ND	1
M/P-XYLENE	ND	2
O-XYLENE	ND	1

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555

*Envira - Chem, Inc.*  
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LABORATORY REPORT

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(714) 632-8521 Fax (714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER DATE RECEIVED: 10/14/10  
DATE SAMPLED: 10/14/10 DATE ANALYZED: 10/15/10  
REPORT TO: MR. BRENT MECHAM DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-1D LAB I.D.: 101014-14

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2  
UNIT: ug/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	10
BENZENE	ND	1
BROMOBENZENE	ND	1
BROMOCHLOROMETHANE	ND	1
BROMODICHLOROMETHANE	ND	1
BROMOFORM	ND	1
BROMOMETHANE	ND	1
2-BUTANONE (MEK)	ND	10
N-BUTYLBENZENE	ND	1
SEC-BUTYLBENZENE	ND	1
TERT-BUTYLBENZENE	ND	1
CARBON DISULFIDE	ND	5
CARBON TETRACHLORIDE	8.29	1
CHLOROBENZENE	ND	1
CHLOROETHANE	ND	1
CHLOROFORM	9.48	1
CHLOROMETHANE	ND	1
2-CHLOROTOLUENE	ND	1
4-CHLOROTOLUENE	ND	1
DIBROMOCHLOROMETHANE	ND	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	1
1,2-DIBROMOETHANE	ND	1
DIBROMOMETHANE	ND	1
1,2-DICHLOROBENZENE	ND	1
1,3-DICHLOROBENZENE	ND	1
1,4-DICHLOROBENZENE	ND	1
DICHLORODIFLUOROMETHANE	ND	1
1,1-DICHLOROETHANE	ND	1
1,2-DICHLOROETHANE	ND	1
1,1-DICHLOROETHENE	ND	1
CIS-1,2-DICHLOROETHENE	ND	1
TRANS-1,2-DICHLOROETHENE	ND	1
1,2-DICHLOROPROPANE	ND	1
1,3-DICHLOROPROPANE	ND	1

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: *[Signature]*

*Enviro - Chem, Inc.*  
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

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PROJECT: 1576 / Burke Street

MATRIX: WATER DATE RECEIVED: 10/14/10  
DATE SAMPLED: 10/14/10 DATE ANALYZED: 10/15/10  
REPORT TO: MR. BRENT MECHAM DATE REPORTED: 10/21/10

SAMPLE I.D.: MW-1D LAB I.D.: 101014-14

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2  
UNIT: ug/L = MICROGRAM PER LITER = PPB

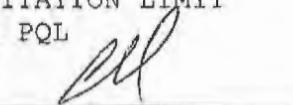
PARAMETER	SAMPLE RESULT	PQL X1
2,2-DICHLOROPROPANE	ND	1
1,1-DICHLOROPROPENE	ND	1
CIS-1,3-DICHLOROPROPENE	ND	1
TRANS-1,3-DICHLOROPROPENE	ND	1
ETHYLBENZENE	ND	1
2-HEXANONE	ND	10
HEXAChLOROBUTADIENE	ND	1
ISOPROPYLBENZENE	ND	1
4-ISOPROPYLtolUENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	10
METHYL tert-BUTYL ETHER (MTBE)	ND	3
METHYLENE CHLORIDE	ND	5
NAPHTHALENE	ND	1
N-PROPYLBENZENE	ND	1
STYRENE	ND	1
1,1,1,2-TETRACHLOROETHANE	ND	1
1,1,2,2-TETRACHLOROETHANE	ND	1
TETRACHLOROETHENE (PCE)	6.14	1
TOLUENE	ND	1
1,2,3-TRICHLOROBENZENE	ND	1
1,2,4-TRICHLOROBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1
1,1,2-TRICHLOROETHANE	ND	1
TRICHLOROETHENE (TCE)	8.21	1
TRICHLOROFUOROMETHANE	ND	1
1,2,3-TRICHLOROPROPANE	ND	1
1,2,4-TRIMETHYLBENZENE	ND	1
1,3,5-TRIMETHYLBENZENE	ND	1
VINYL CHLORIDE	ND	1
M/P-XYLENE	ND	2
O-XYLENE	ND	1

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555



*Enviro - Chem, Inc.*  
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: Environmental Audit, Inc.  
1000 Ortega Way, Suite A  
Placentia, CA 92670-7125  
(714) 632-8521 Fax (714) 632-6754

PROJECT: 1576 / Burke Street

MATRIX: WATER DATE RECEIVED: 10/14/10  
DATE SAMPLED: 10/14/10 DATE ANALYZED: 10/15/10  
REPORT TO: MR. BRENT MECHAM DATE REPORTED: 10/21/10

METHOD BLANK FOR LAB I.D.: 101014-13, -14

ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 1 OF 2

UNIT: ug/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL X1
ACETONE	ND	10
BENZENE	ND	1
BROMOBENZENE	ND	1
BROMOCHLOROMETHANE	ND	1
BROMODICHLOROMETHANE	ND	1
BROMOFORM	ND	1
BROMOMETHANE	ND	1
2-BUTANONE (MEK)	ND	10
N-BUTYLBENZENE	ND	1
SEC-BUTYLBENZENE	ND	1
TERT-BUTYLBENZENE	ND	1
CARBON DISULFIDE	ND	5
CARBON TETRACHLORIDE	ND	1
CHLOROBENZENE	ND	1
CHLOROETHANE	ND	1
CHLOROFORM	ND	1
CHLOROMETHANE	ND	1
2-CHLOROTOLUENE	ND	1
4-CHLOROTOLUENE	ND	1
DIBROMOCHLOROMETHANE	ND	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	1
1,2-DIBROMOETHANE	ND	1
DIBROMOMETHANE	ND	1
1,2-DICHLOROBENZENE	ND	1
1,3-DICHLOROBENZENE	ND	1
1,4-DICHLOROBENZENE	ND	1
DICHLORODIFLUOROMETHANE	ND	1
1,1-DICHLOROETHANE	ND	1
1,2-DICHLOROETHANE	ND	1
1,1-DICHLOROETHENE	ND	1
CIS-1,2-DICHLOROETHENE	ND	1
TRANS-1,2-DICHLOROETHENE	ND	1
1,2-DICHLOROPROPANE	ND	1
1,3-DICHLOROPROPANE	ND	1

----- TO BE CONTINUED ON PAGE #2 -----

DATA REVIEWED AND APPROVED BY: MR. BRENT MECHAM

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ANALYSIS: VOLATILE ORGANICS, EPA METHOD 5030B/8260B, PAGE 2 OF 2

UNIT: ug/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL X1
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1,1-DICHLOROPROPENE	ND	1
CIS-1,3-DICHLOROPROPENE	ND	1
TRANS-1,3-DICHLOROPROPENE	ND	1
ETHYLBENZENE	ND	1
2-HEXANONE	ND	10
HEXACHLOROBUTADIENE	ND	1
ISOPROPYLBENZENE	ND	1
4-ISOPROPYLtolUENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	10
METHYL tert-BUTYL ETHER (MTBE)	ND	3
METHYLENE CHLORIDE	ND	5
NAPHTHALENE	ND	1
N-PROPYLBENZENE	ND	1
STYRENE	ND	1
1,1,1,2-TETRACHLOROETHANE	ND	1
1,1,2,2-TETRACHLOROETHANE	ND	1
TETRACHLOROETHENE (PCE)	ND	1
TOLUENE	ND	1
1,2,3-TRICHLOROBENZENE	ND	1
1,2,4-TRICHLOROBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1
1,1,2-TRICHLOROETHANE	ND	1
TRICHLOROETHENE (TCE)	ND	1
TRICHLOROFLUOROMETHANE	ND	1
1,2,3-TRICHLOROPROPANE	ND	1
1,2,4-TRIMETHYLBENZENE	ND	1
1,3,5-TRIMETHYLBENZENE	ND	1
VINYL CHLORIDE	ND	1
M/P-XYLENE	ND	2
O-XYLENE	ND	1

COMMENTS PQL = PRACTICAL QUANTITATION LIMIT

ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:

CAL-DHS CERTIFICATE # 1555

## Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

## 8260B QA/QC Report

Date Analyzed: 10/15/2010Matrix: WaterMachine: BUnit: ug/L (PPB)

## Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 101015-14 MS/MSD

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Benzene	0	25.0	22.8	91%	23.3	93%	2%	75-125	0-20
Chlorobenzene	0	25.0	25.4	102%	23.7	95%	7%	75-125	0-20
1,1-Dichloroethene	0	25.0	24.3	97%	22.7	91%	6%	75-125	0-20
Toluene	0	25.0	23.1	92%	24.7	99%	6%	75-125	0-20
Trichloroethene (TCE)	0	25.0	25.5	102%	24.8	99%	3%	75-125	0-20

## Lab Control Spike (LCS):

Analyte	spk conc	LCS	%RC	ACP %RC
Benzene	25.0	24.0	96%	75-125
Chlorobenzene	25.0	22.7	91%	75-125
Chloroform	25.0	24.0	96%	75-125
1,1-Dichloroethene	25.0	22.7	91%	75-125
Ethylbenzene	25.0	24.4	98%	75-125
o-Xylene	25.0	22.3	89%	75-125
m,p-Xylene	50.0	49.3	99%	75-125
Toluene	25.0	27.9	112%	75-125
1,1,1-Trichloroethane	25.0	25.1	100%	75-125
Trichloroethene (TCE)	25.0	28.0	112%	75-125

Surrogate Recovery	spk conc	ACP %RC	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			M-BLK	101015-12	101015-13	101015-14	101015-36	101015-9	101014-13
Dibromofluoromethane	25.0	70-130	92%	94%	102%	107%	98%	97%	99%
Toluene-d8	25.0	70-130	96%	97%	99%	95%	94%	98%	97%
4-Bromofluorobenzene	25.0	70-130	87%	83%	82%	84%	90%	102%	87%

Surrogate Recovery	spk conc	ACP %RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			101014-14	101015-5					
Dibromofluoromethane	25.0	70-130	109%	86%					
Toluene-d8	25.0	70-130	95%	97%					
4-Bromofluorobenzene	25.0	70-130	86%	84%					

Surrogate Recovery	spk conc	ACP %RC	%RC						
Sample I.D.									
Dibromofluoromethane	25.0	70-130							
Toluene-d8	25.0	70-130							
4-Bromofluorobenzene	25.0	70-130							

\* = Surrogate fail due to matrix interference; LCS, MS, MSD are in control therefore the analysis is in control.

S.R. = Sample Results

%RC = Percent Recovery

spk conc = Spike Concentration

ACP %RC = Accepted Percent Recovery

MS = Matrix Spike

MSD = Matrix Spike Duplicate

Analyzed/Reviewed By: SMFinal Reviewer: R



# **Environmental Audit, Inc.**

## Planning, Environmental Analysis and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A (714) 632-8521  
PLACENTIA, CA 92870-7162 FAX (714) 632-6754

## Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA  NPDES  SDWA

WRITTEN QC REPORT      EDS: YES  NO

ROUTINE QC ■ TURNAROUND TIME:

RWQCB QC  SAME DAY  24hr  48 hr  NORMAL